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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/871,323 | 05/30/2001 | Janardhana Swamy | P5666 | 1200 |

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EXAMINER

KOVALICK, VINCENT E

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2673

DATE MAILED: 04/14/2003

2

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/871,323

Applicant(s)

SWAMY, JANARDHANA

Examiner

Vincent E Kovalick

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 5/30/01.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

1. This Office Action is in response to Applicant's Patent Application, Serial No. 09/871,323, with a File Date of May 30, 2001.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3, 6-10, 12-13 and 15-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Henty (USP 5,838,138).

As to claims 1, 12 and 20, Henty **teaches** an electronic device which is powered by actuation of manual inputs; (col. 1, lines 49-67 and col. 2, lines 1-27); Henty further **teaches** a self-powered peripheral device, and a computer system comprising a computer and further comprising a power generator for converting mechanical energy generated by motion of said device into electrical energy (col. 1, lines 49-53 and 67, and col. 2, lines 1-4).

As to claim 2, Henty **teaches** said method further comprising generating said motion by human energy (col. 3, lines 59-63).

As to claim 3, Henty **teaches** said method where said input device comprises a mouse (col. 2, lines 15-19).

As to claims 6 and 15, Henty **teaches** the method and device wherein said input device comprises a keyboard (col. 1, lines 49-53).

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As to claims 7 and 16, Henty **teaches** the method wherein said keyboard comprises at least one key coupled to a shaft, further comprising: coupling a coil to said shaft; and causing said coil to compress when said key is in motion (col. 3, lines 1-2; col. 3, lines 54-64 and Fig. 2a).

As to claim 8, Henty **teaches** the method wherein said keyboard comprises at least one key further comprising coupling a coil to a group of keys such that said coil is compresses when one of said keys is in motion (col. 4, lines 11-25 and Fig. 3).

As to claims 9-10 and 19, Henty **teaches** the method steps comprising storing said electrical energy in an energy-storing device; and storing said electrical energy in a rechargeable battery (col. 1, lines 55-67 and col. 7, lines 7-19).

As to claim 13, Henty **teaches** a self-powered peripheral device wherein said input device comprises a mouse (col. 2, lines 15-19).

As to claim 17, Henty **teaches** said input device wherein said power generator comprises at least one key (Fig. 2a item 46); a shaft coupled to each of said key (Fig. 2a, item 44); a plate coupled to a plurality of said keys (col. 3, lines 1-2 and Fig. 2a, item 12); and a coil, wherein said at least one key causes motion to said plate and said shaft compress said coil (col. 3, lines 1-2 and 54-63, and Fig. 2a, item 42).

As to claim 18, Henty **teaches** said input device further comprising a rectifier circuit coupled to said power generator; a charging circuit coupled to said rectifier circuit; and an energy storing device coupled to said charging circuit (col. 4, lines 55-67 and Fig. 4).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 4-5 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henty as applied to claims 3 and 13 respectively in item 3 hereinabove, and further in view of Mazzone et al. (USP 4,951,034).

Relative to claims 4-5 and 14, Henty **teaches** a mouse incorporating a power generator comprising a dynamo; said mouse comprising a ball portion (col. 4, lines 7-10) and a mouse with mechanical to electrical conversion (dynamo) techniques (col. 2, lines 15-19).

Henty **does not teach** said mouse comprising a wheel proximate said ball; a shaft coupled to said wheel; and a said dynamo coupled to said shaft.

Mazzone et al. **teaches** a light ball electronic mouse (col. 2, lines 7-44); Mazzone et al. further teaches a wheel proximate said ball; a shaft coupled to said wheel and a dynamo coupled to said shaft (col. 1, lines 24-29).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate in the device (mouse) as taught by Henty the features as taught by Mazzone et al. in order to put in place the mechanical means to facilitate the conversion of the rotation of the mouse ball (mechanical energy) to electrical energy.

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6. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Henty as applied to claim 9 in item 3 hereinabove, and further in view of Koch (USP 5,083,899).

Regarding claim 11, Henty **does not teach** the method step of converting alternating current into direct current; and charging said energy storing device.

Koch **teaches** an energy machine (col. 1, lines 17-31); Koch further **teaches** converting alternating current into direct current; and charging said energy storing device (col. 10, lines 4-5 and 11-13).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate in the methodology as taught Henty the steps as taught by Koch in order to put in place the steps necessary to convert alternating current to direct current in order to recharge the electrical energy of the peripheral device.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U. S. Patent No. 6,400,356 Bidiville et al.

U. S. Patent No. 5,677,684 Lin

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Responses

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent E Kovalick whose telephone number is 703 306-3020.

The examiner can normally be reached on Monday-Thursday 7:30- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703 305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872-9314 for regular communications and 703 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 306-0377.



Vincent E. Kovalick
April 11, 2003